

L 58923-65 EWA(k)/FBD/EWO(x)/ENT(l)/EWP(e)/EWT(m)/EEG(k)-2/EWP(l)/T/EEG(b)-2/

EWP(k)/EWA(m)-2/EWA(h) Pm-4/Pn-4/Po-4/Pf-4/Peb/P1-4/P1-4 IJP(c) WH/WO

ACCESSION NR: AP5017490

UR/0368/65/002/006/0495/0503

535.89

65
B

AUTHOR: Rubinov, A. N.

TITLE: Energy balance of a ruby excited by powerful light pulses

SOURCE: Zhurnal prikladnoy spektroskopii, v. 2, no. 6, 1965, 495-503

TOPIC TAGS: ruby, ruby laser, ruby energy balance, energy yield

ABSTRACT: The energy balance of a ruby placed within and without the resonator cavity and excited by powerful light pulses of short duration was investigated experimentally. Excitation was delivered by two IFK-2000 flashlamps to a ruby rod 48 mm long and 8 mm in diameter. For convenience, the system was described by four energy levels: 1 - the ground state; 2 - the metastable state 2E ; 3 - both levels 4F_1 and 4F_2 ; and 4 - all doublet states into which transitions from 2E are possible. According to this system, pumping energy is absorbed in the $1 \rightarrow 3$ and $2 \rightarrow 4$ transitions, and the emission of heat in $3 \rightarrow 2$, $3 \rightarrow 1$, and $4 \rightarrow 2$. Luminescence and generation are due to the $2 \rightarrow 1$ transitions. The relative populations of levels 1 and 2 were represented as functions of time as the radiation density of excitation varied. The relative numbers of transitions from level 3 to level 2

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ACCESSION NR: AP5017490

were shown to have different dependences on time for different energies of the light pulses. The coefficients of absorption for transitions from levels 1 to 3 and 2 to 4, the pumping density, and the quantum yield were described as functions of frequency. The relative numbers of transitions between specific levels per flash with and without generation were tabulated for various intensities of excitation. Experimental data, obtained from temperature measurements by an 8 cm³ Cu calorimeter filled with CCl₄, confirmed with experimental accuracy the linear dependence of the total heating of a non-generating ruby on the intensity of excitation. The percentage of heat liberated in 3 → 1 due to radiationless transitions between ⁴F₁ and ⁴A₂ [sic] was 67%, and 58% of the heat generated in 3 → 2 was due to transitions between ⁴F₁ and ²E. In all, the 3 → 1 transitions generate 1.3 times more heat than the 3 → 2 transitions. With the occurrence of generation, the role of transitions from level 3 to levels 1 and 2 increased, while that of transitions from level 4 to 2 decreased. The total heating of the ruby was determined only by the pumping energy and was almost independent of generation. Additional heating of the ruby with polished sides may be due to the generation therein of closed ring modes. Computed and experimental data on heating of the ruby coincided well. In the process of generation the energy yield did not exceed 41% even for infinitely long pumping. The coefficient of transformation was almost independent of pumping and for the given ruby

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ACCESSION NR: AP5017490

and lamps, was 2.8%. The ratio of generation energy to heat increased with pumping; approximately 70% of the pumping energy absorbed by the ruby laser was transformed into heat. Orig. art. has: 6 figures, 12 formulas, and 3 tables. [YK]

ASSOCIATION: none

SUBMITTED: 100ct64

ENCL: 00

SUB CODE: EC

NO REF Sov: 006

OTHER: 001

ATD PRESS: 4048

Am

Card 3/3

I. W1352-65 EWT(m)/EWP(e)/EWP(i) WH
ACCESSION NR: AP5006862

8/0250/65/009/001/0018/0021

Z
27
B

AUTHOR: Rubinov, A. N.; Mikhnov, S. A.

TITLE: Change in emission spectrum of a finite volume on going through an inversion point

SOURCE: AN BSSR. Doklady, v. 9, no. 1, 1965, 18-21

TOPIC TAGS: ruby laser, absorption coefficient, emission spectrum, inversion point, stimulated emission, absorption

ABSTRACT: The authors consider the change in the spectral composition of emission from a finite volume under the influence of a strong stimulation by light, such as to produce a reversal in the absorption coefficient of the medium from positive to negative. The change in the spectral composition of a small-

~~eficients shows that the distortion of the emission curves is very small.~~

Card 1/3

L 44352-65

ACCESSION NR: AP5006862

lar formulas for both positive and negative values of the absorption coefficients,
despite the difference in the nature of the processes. To check on these deduc-
~~tions~~ measurements were made on the emission of R-lines of ruby as functions of

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L 44352-65

ACCESSION NR: AP5006862

ASSOCIATION: Institut fiziki AN BSSR (Institute of Physics, AN BSSR)

SUBMITTED: 19Oct64

ENCL: 00

SUB CODE: EC, OP

NR REF Sov: 003

OTHER: 001

ls
Card 3/3

IVANOV, A.P.; RUBINOV, A.N.; MIKHNOV, S.A.

Methods for studying absorption spectra of substances in a
state of strongly disturbed thermodynamic equilibrium. Opt.
i spektr. 17 no.4:597-606 O '64. (MIRA 17:12)

L 12397-65 EWG(j)/EWA(k)/FBD/EWT(I)/EWP(e)/EWT(m)/EEC(k)-2/EEC(t)/T/EEC(b)-2/
Pn-4/Po-4/Pf-4/Peb/Pi-4/Pl-4 IJP(c)/AS(mp)-2/AEDC(a)/
S/0051/64/017/004/0597/0606
ACCESSION NR: AP4047180

AUTHORS: Ivanov, A. P.; Rubinov, A. N.; Mikhnov, S. A.

T
TITLE: Methods of investigating absorption spectra of substances
in a state of strongly disturbed thermodynamic equilibrium

SOURCE: Optika i spektroskopiya, v. 17, no. 4, 1964, 597-606

TOPIC TAGS: absorption spectrum, thermodynamic equilibrium, laser
dium, ruby laser

ABSTRACT: The article deals with the interaction between a substance
and light of sufficient intensity to raise a large number of mole-
cules to several excited states corresponding

which the system is excited. The authors consider three methods

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L 12897-65
ACCESSION NR: AP4047180

3

for the analysis of such spectra. Two pertain to the case of stationary applied illumination, and one to pulsed illumination. The first method consists of plotting a family of curves for the absorption coefficient κ as a function of aU (U -- intensity, a -- non-linearity parameter of the medium, dependent on the transition probabilities between different levels) and determining the ratio of the oscillator strengths with an auxiliary curve. In the second method the ratio of the oscillator strengths of the different absorption bands is determined from an estimate of the distribution of the particles between the different levels. The third method, which applies to pulsed illumination, is essentially a modification of the second method. This method was checked by investigating the absorption spectrum of a ruby crystal excited with two infrared lasers connected in series and energized with a ca-

~~Tyaptin for help in constructing the setup and in the tests.~~

Card 2/3

L 12897-65

ACCESSION NR: AP4047180

art. has: 6 figures and 14 formulas.

ASSOCIATION: None

SUBMITTED: 03Jun63

ENCL: 00

SUB CODE: OP

NR REF SOV: 005

OTHER: 002

ACCESSION NR: AP4042776

S/0020/64/157/003/0503/0505

AUTHORS: Akilov, G. P.; Rubinov, A. M.

TITLE: Successive approximation method for finding a best-approximation polynomial

SOURCE: AN SSSR. Doklady*, 1964, v. 157, no. 3, 1964, 503-505

TOPIC TAGS: approximation method, polynomial, linear programming, convergent series, successive approximation method, normal space

ABSTRACT: The best approximation (a number μ) is defined as the lowest value of a polynomial P , which is determined by solving a series of auxiliary problems, using for example linear programming methods. A scheme of constructing the best-approximation polynomial is described. The sequence of polynomials $\{P_m\}$ obtained during the course of the solution generates a sequence of least approximations $\{\mu_m\}$. If X is a normalized space (on the field of all real or all

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ACCESSION NR: AP4042776

complex numbers, then the following theorem is proved: The sequence $\{\mu_m\}$ converges to μ . The sequence $\{P_m\}$ is bounded (in the space X). If $\{P_{m_i}\}$ is an arbitrary convergent sub-sequence of the sequence $\{P_m\}$, then

$$Q = \lim_{i \rightarrow \infty} P_{m_i}$$

is the best-approximation polynomial. If the best-approximation polynomial Q is unique, then the sequence $\{P_m\}$ itself converges to Q. Some particular cases are pointed out. Orig. art. has: 5 formulas. Presented by Academician V.I. Smirnov.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova (Leningrad State University)

SUBMITTED: 30Jan64

ENCL: 00

SUB CODE: MA

NR REF Sov: 000

OTHER: 000

2/2

L15616-63

EDS

ACCESSION NR: AP3000838

S/0286/63/000/002/0025/0025

50

AUTHOR: Ivanchuk, B. N.; Lipan, R. A.; Rubinov, B. Ya.

TITLE: Contactless relay. Class H-01h; 21g, 4 sub 05. No. 152708

SOURCE: Byul. izobreteniy i tovarknykh znakov, no. 2, 1963, 25

TOPIC TAGS: contactless relay, controlled diode

ABSTRACT: A contactless relay, intended for operation in DC circuits, made using a semiconductor controllable diode connected in series with the load; its distinguishing feature is that in order to insure that the relay is disconnected when the input signal is removed, a relaxation oscillator with a switching diode is employed, the active resistance in the generator being connected to the positive terminal of the power supply, with the cathodes of the controlled and switching diode connected to the negative terminal, while the capacitance is connected between the anodes of these diodes. Orig. art. has: 1 figure (see Enclosure 1) /Abstractor's note: complete translation/

Card 1/31

43185
S/103/62/023/012/013/013
D201/D308

92580

AUTHORS:

Ivanchuk, B.N., Lipman, R.A., and Rubinov, B.Ya.
(Moscow)

TITLE:

A single-rectifier full-wave magnetic amplifier

PERIODICAL:

Avtomatika i telemekhanika, v. 23, no. 12,
1962, 1701 - 1711

TEXT:

The authors analyze theoretically a simple series, self-saturating magnetic amplifier and show that, under certain conditions, one of the rectifying elements may be dispensed with, without impairing the overall amplifier performance. Expressions for a single-rectifier amplifier are obtained which determine the behavior of all amplifier parameters in stationary regime and make it possible to calculate all the necessary characteristics of the amplifier circuit. The results of analysis were applied to the experimental amplifiers with transistor and vacuum tube control amplifiers. The experiments have shown that in all cases the input-output characteristics of amplifiers were very nearly the same.

Card 1/2

X

A single-rectifier ...

S/103/62/023/012/013/013
D201/D308

The single-rectifier magnetic amplifier can also be controlled by a half-wave choke, the working winding of which is connected in series with the control winding of the amplifier. The analysis is carried out for piecewise linear approximation of the magnetization curve, neglecting the hysteresis and eddy currents and for the resistive load. The cct is of importance because of the economy and reliability and because it may be considered as a basis for many other applications. There are 6 figures.

SUBMITTED, June 30, 1962

X

Card 2/2

COUNTRY : USSR
CATEGORY : General Problems of Pathology. Tumors.
Comparative Oncology. Human Neoplasms.
BS. JOUR. : RZhBiol., No. 23 1958, No. 107189
UTHOR : Rubinov, D.M.
NST. :
ITLE : A Case of A Tumor of the Epididymis.

RIG. PUB. : Urologia, 1958, No. 2, 66-67.

BSTRACT : In a patient 42 years old, having some swelling and gnawing pains in the area of the right testicle, a painless tumor was discovered. On the basis of the clinical course and unsuccessful therapy with streptomycin, a diagnosis of a benign tumor of the epididymis of the right testicle was suggested, which was confirmed by biopsy. Following the resection of the epididymis the patient was discharged in good condition. The rarity of tumors of the given localization and the diagnostic difficulty are underlined.

ard:

1/1

RUBINOV, D.M. (Tashkent)

Tumors of the epididymis. Urologiia 23 no.2:66-67 Mr-Apr '58.
(MIRA 11:4)

1. Iz urologicheskogo otdeleniya (nach. - kandidat meditsinskikh nauk
A.A.Koyzman) Okruzhnogo voyennogo gospitalya (nach. - polkovnik
meditsinskoy sluzhby N.D.Neustroyev)

(EPIDIDYMIS, neoplasms
adenoma (Rus))

RUBINOV, E.B.

Checking the nonuniformity of raw silk on automatic cocoon reeling
machines. Izv.vys.ucheb.zav.;tekhn.tekst.prom. no.4:60-68 '60.
(MIRA 13:9)

1. Tashkentskiy tekstil'nyy institut.
(Silk manufacture)

RUBINOV, E.B.

Rose compensation period for the UzNIISh automatic cocoon reeling machine operating in accordance with the principle of the tension of raw-silk thread. Izv.AN Uz.SSR.Ser.tekh.nauk no.1:28-43 '61.
(MIPA 14:2)

1. Institut Khimii polimerov AN UzSSR.
(Silk thread)

RUBINOV, E.B.

New method of determining the speed rate in the unwinding of cocoons
on automatic machines operating on the principle of thread tension.
Izv. vys. ucheb. zav.; tekhn. teks. prom. no. 2:49-57 '61.
(MIRA 14:5)

1. Institut khimii polimerov AN UzSSR.
(Silk manufacture) (Automatic control)

RUBINOV, Emmanuil Babadzhanyich, kand.tekhn.nauk; TUMAYAN, Stepan
Akopovich, kand.tekhn.nauk. Prinimal uchastiye MINTS, M.D..
CHELYSHKIN, Yu.G., red.; ZUBRILINA, Z.P., tekhn.red.

[Preparation and primary treatment of silk cocoons] Zagotovka
i pervichnaya obrabotka shelkovichnykh kokonov. Moskva, Gos.
izd-vo sel'khoz.lit-ry, 1959. 367 p. (MIRA 13:7)
(Sericulture)

RUBINOV, E.B.

Experimental evaluation of the relation between thinness,
tension and lengthening of raw silk thread moving at a constant
velocity. Izv.vys.ucheb.zav.; tekhn.tekst.prom. no.4:44-53 '59.
(MIREA 12:11)

1. Uzbekskiy nauchno-issledovatel'skiy institut shelka.
(Silk thread--Testing) (Reels(Textile machinery))

RUBINOV, E.B., kandidat tekhnicheskikh nauk; BAGLIKOV, S.A.,
inzhener.

New method of reeling cocoons by combining. Tekst.prom.
15 no.1:11-14 Ja '55. (MIRA 8:2)
(Silk manufacture)

RUBINOV, Emmanuil Rakhel'chovich, doktor tekhn. nauk; OSIPOVA,
Lyudmila Khaimova, NIKITIN, Ivan Vasil'yevich;
GORYACHEV, M.I., retsenzent; SOKOLOVA, V.Ye., red.

[Automatic cocoon reeling] Avtomaticheskoe kokonometanie.
Moskva, Legkaya industriia, 1964. 194 p. (MIRA 18:3)

RUBINOV, G., inzhener.

New semitrailers for transporting panels. Stroitel'
no.12:19 D '56. (MLRA 10:2)

(Automobiles--Trailers)

RUBINOV, I.S.

RUBINOV, I.S.

Correlation of mastication and deglutition reflexes during
ingestion. Fizol.zh.SSSR 36 no.5:580-586 Sept-Oct 50.
(CLML 20:4)

1. Department of Normal Physiology and the Department of
Orthopedic Stomatology of Leningrad Medical Stomatological
Institute.

2. Experiments conducted on esophagotomized dogs.

RUDINOV, I. S.

"Clinicophysiological Investigation of Normal and Pathological Mastication and Swallowing." Dr Med Sci, Leningrad Sanitary Hygiene Medical Inst, Leningrad, 1952. (RZhBiol, No 1, Sep 54)

SC: Sum 432, 29 Mar 55

SHARGORODSKIY, L.Ye. [author]; RUBINOV, I.S. [reviewer].

"Orthodontia." L.E.Shargorodskii. Reviewed by I.S.Rubinov. Stomatologija
no.4:62 Jl-Ag '53. (MLRA 6:9)
(Teeth, Abnormities and deformities) (Sharogorodskii, L.E.)

RUBINOV, I.S., professor

Graphic method of registering the motor function of the masticatory apparatus (masticatiography). Stomatologija no.4:50-54 J1-Ag '54.
(MIRA 7:9)

1. Iz kafedry ortopedicheskoy stomatologii (zav. prof. I.S.Rubinov)
Leningradskogo meditsinskogo stomatologicheskogo instituta (dir.
prof. R.I.Gavrilov)
(MASTICATION,
registration of motor funct. of masticatory appar.)

RUBINOV, I.S., professor (Leningrad)

Methods for objective study of the effectiveness of anesthesia.
Stomatologija 35 no.6:38-41 N-D '56 (MLRA 10:4)
(ANESTHESIA IN DENTISTRY) (MASTICATION)

RUBINOV, I.S.

[Physiology and pathophysiology of mastication and deglutition]
Fiziologija i patofiziologija zhevaniia i glotaniia. Leningrad,
Medgiz, 1958. 262 p. (MIRA 11:9)

(DEGLUTITION)
(MASTICATION)

RUBINOV, Iosif Solomonovich; VASILEVSKIY, N.N., red.

[Physiological principles of stomatology] Fiziologicheskie osnovy stomatologii. Leningrad, Meditsina, 1965. 350 p.

(MIRA 18:2)

RUBINOV, I.S., prof.

Review of V.IU. Kurliandskii's textbook "Orthopedic stomatology."
Stomatologija 42 no.3:102-104 My-Je'63 (MIRA 17:1)

RUBINOV, I.S., prof.

Theory of functional links of the masticatory system. Stomatologija
41 no.5:65-69 S-O '62. (MIRA 16:4)

1. Iz kafedry ortopedicheskoy stomatologii (zav. - prof.
I.S.Rubinov) I Leningradskogo meditsinskogo instituta imeni
I.P.Pavlova.

(MASTICATION)

RUBINOV, I.S., prof.

"Orthopedic stomatology" by A.I.Betel'man. Reviewed by I.S.
Rubinov. Stomatologija 41 no.4:101-103 Jl-Ag '62. (MIRA 15:9)
(STOMATOLOGY) (ORTHODONTIA) (BETEL'MAN,A.I.)

RUBINOV, I.S., prof.

Role of nervous reception in the clinical aspects of orthopedic
stomatology. Trudy LSGMI 63:7-18 '60. (MIRÄ 15:1)
(MASTICATION) (MOUTH INNervation)
(STOMATOLOGY)

RUBINOV, I.S., prof.

Characteristics of the method of studying mastication. Trudy LSGMI
63:19-36 '60. (MILA 15:1)
(MASTICATION)

RUBINOV, Iosif Solomonovich, prof.; TANFIL'YEV, D.Ye., red.; SHEVCHENKO,
F.Ya., tekhn.red.

[Teeth and health] Zubы i zdorov'e. Leningrad, Gos.izd-vo med.
lit-ry. Leningr. otd-nie, 1960. 31 p. (MIRA 13:11)
(TEETH--CARE AND HYGIENE)

RUBINOV I. S.

AGGEYEV, P.K., prof.; ANDREYeva-GALANINA, Ye.TS., prof.; BASHENIN, V.A., prof.; BENENSON, M.Ye., doktor med.nauk; VYSHEGORODTSEVA, V.D., prof.; GESSEN, A.I., dotsent; GUTKIN, A.Ya., prof.; ZHDANOV, D.A., prof., laureat Stalinskoy premii; ZNAMENSKIY, V.F., prof.; KLIONSKIY, Ye.Ye., prof.; MONASTYRSKAYA, B.I., prof.; MOSKVIN, I.A., prof.; MUCHNIK, L.S., kand.med.nauk; PETROV-MASLAKOV, M.A., prof.; RUBINOV, I.S., prof.; RYSS, S.M., prof.; SMIRNOV, A.V., prof., zasluzhennyy deyatel' nauki; TIKHOMIROV, P.Ye., prof.; TROITSKAYA, A.D., prof.; UDINTSEV, G.N., prof.; UFLYAND, Yu.M., prof.; FEDOROV, V.K., prof.; KHILOV, K.L., prof., zasluzhennyy deyatel' nauki; VADKOVSKAYA, Yu.V., prof.; MARSHAK, M.S., prof.; PETROV, M.A., kand.med.nauk; POSTNIKOVA, V.M., kand.med.nauk; RAPOPORT, K.A., kand.biolog.nauk; ROZENTUL, M.A., prof.; YANKELEVICH, Ye.I., kand.med.nauk; LYUDKOVSKAYA, N.I., tekhn.red.

[Book on health] Kniga o zdorov'e. Moskva, Gos.izd-vo med.lit-ry, Medgiz, 1959. 446 p. (MIRA 12:12)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Zhanov, Udintsev). 2. Leningradskiy sanitarno-gigiyenicheskiy meditsinskiy institut (for all, except Vadkovskaya, Marshak, Petrov, Postnikova, Rapoport, Rozentul, Yankelevich, Lyudkovskaya).
(HYGIENE)

RUBINOV, Leonid Yakovlevich; POGORELOV, V.I., red.; SHILLING, V.A.,
red. izd-va; BELOGUROVA, I.A., tekhn. red.
[Hydraulic equipment for metal cutting machines] Gidravliche-
skaia apparatura dlia metallorezhushchikh stankov; stenogramma.
(MIRA 16:2)
Leningrad, 1962. 53 p.
(Metal cutting) (Oil hydraulic machinery)

RUBINOV, M., kandidat ekonomiceskikh nauk.

Problems of controlling production costs in the building and assembly industry. (In: Moscow. Finansovaia akademija. Nauchnye zapiski. Moskva, 1953, p. 98-117.) (MLRA 7:2)

1. Moscow. Finansovaya akademija. (Construction industry--Costs)

RUBINOV, M.

Analysis of the fulfillment of the production program of an enterprise. Fin. SSSR 16 no.7:77-87 J1'55. (MIRA 8:10)
(Productivity--Accounting)

RUBINOV, M.

Special features of the analysis of the production and financial
operations of clothing industry enterprises. Fin. SSSR 22
no.8:75-81 Ag '61. (MIRA 14:8)

(Clothing industry—Finance)

RUBINOV, M.Ya. (Tashkent).

Republican conference of administrative personnel of secondary schools of the Ministry of Public Health of the Uzbek S.S.R.
Fel'd.i akush. no.1:49 Ja '54. (MLRA 7:1)
(Uzbekistan--Medicine) (Medicine--Uzbekistan)

RUBINOV, M.Ya. (Tashkent)

First medical school in Uzbekistan. Fel'd. 1 akush. 26 no. 2:56-57
F '61. (MIRA 14:4)

(UZBEKISTAN—MEDICAL COLLEGES)

1. RUBINOV, M. O.; MEDVEDEVSKIY, G. D.; Engs.
2. USSR (600)
4. Reinforced Concrete Construction
7. Erecting reinforced concrete storage silos and vertical slurry bins inside a sliding form. TSement 19, No. 2, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

RUBINOV, Moisey Zalmanovich; SAVICHEV, P.I., otv. red.; KOROTKOVA, L.,
red. izd-va; MAZURKEVICH, M., red. izd-va; TELEGINA, T., tekhn.
red.

[Principles for the economic analysis of the work of enterprises]
Osnovy ekonomiceskogo analiza raboty predpriatii. Moskva, Gos-
finizdat, 1962. 239 p. (MIRA 15:12)
(Industrial organization) (Accounting)

RUBINOV, M.Z., kandidat ekonomicheskikh nauk.

Some problems in analyzing indices of mechanization in construction
engineering. Stroi. prom. 33 no.9:44-46 S '55. (MLRA 9:1)
(Building machinery)

KRUGLOV, V.I., dots.; NARINSKIY, A.S., starshiy prepodavatel';
RUBINOV, M.Z., dots.; TSVETKOVA, Ye.M., prepodavatel';
MAZURKEVICH, M., red. izd-va; TELEGINA, T., tekhn. red.

[Collected problems in accounting] Sbornik zadach po
bukhgalterskomu uchetu. Moskva, Gosfinizdat, 1962. 262 p.
(MIRA 15:9)

1. Leningradskiy finansovo-ekonomicheskiy institut (for
Kruglov, Narinskiy, Tsvetkova).
(Accounting--Problems, exercises, etc.)

RUBINOV, N.Z., inzh.

Parameters and technical and economic indices of gas pipelines.
(MIRA 16:12)
Trudy VNIIST no.14:55-68 '62.

VAYNSHTEYN, B.S., kand. ekon. nauk; LEYKINA, K.B.; MINTS, M.G.;
LUCHINSKIY, S.M.; KIYEVSKIY, V.G., kand. ekon. nauk;
VINER, S.A.; RIBINOVICH, V.V.; GUREVICH, M.S.;
ZIKEYEV, B.V., kand. tekhn. nauk; RIBINOVICH, V.V.;
SARYCHEV, V.S., kand. tekhn. nauk; APARIN, I.L.;
KRINITSKAYA, M.Ye.; DZIKOVSKIY, G.I.; ZEL'TSER, R.Ya.;
GOL'DENBERG, I.L.; ISAKOVSKIY, I.G.; DEMIDOVA, S.N.,
~~1965~~

[Economic efficiency of capital investments and the
introduction of new equipment in construction] Ekonomiches-
skaia effektivnost' kapital'nykh vlozhenii i vnedreniya
novoi tekhniki v stroitel'stve. Moskva, Stroizdat, 1965.
(MIRA 18:8)
235 p.

1. Moscow. Nauchno-issledovatel'skiy institut ekonomiki
stroitel'stva. 2. Rukovoditel' sektora ekonomiceskoy
effektivnosti novoy tekhniki Nauchno-issledovatel'skogo
instituta ekonomiki stroitel'stva, Moskva (for Kiyevskiy).
3. Sektor ekonomiceskoy effektivnosti novoy tekhniki
Nauchno-issledovatel'skogo instituta ekonomiki stroitel'-
stva, Moskva (for all ~~except~~ Demidova). 4. Nauchno-issledo-
vatel'skiy institut ekonomiki stroitel'stva, Moskva (for
Demidova).

KUPERMAN, Ya.M., kand.ekonom.nauk; RUBINOV, N.Z., inzh.

Economic effectiveness of using pipes made from aluminum alloys
in pipeline construction. Trudy VNIIST no.14:95-104 '62.
(MIRA 16:12)

RUBINOV, P., inzh.

Transporting concretes and mortars in winter. Biul.tekh.inform.

5 no.1:31-32 Ja '59. (MIRA 12:4)
(Concrete--Transportation) (Mortar--Transportation)

GRINVAL'D, G.; RUBINOV, P.

Machine for straightening Cardan shafts. Avt.transp. 37
no.11:53 N '59. (MIRA 13:2)
(Automobiles--Transmission devices--Maintenance and repair)

RUBINOV, P., inzh.

Experience in using warming up of automobiles by steam. Avt. transp.
36 no.2:13 F '58. (MIRA 11:2)
(Automobiles--Cold weather operation)

RUBINOV, P.B.; GRINVAL'D, G.I.

Detachable truck trailers used for transporting long reinforced concrete products. Nov.tekh. i pered. op v stroi. 20 no.5:22-23 My '58.

(MIRA 11:5)

(Truck trailers)

(Concrete products--Transportation)

BABICH, A.D., inzh.; RUBINOV, P.B., inzh.; ROBINSON, D.V., inzh.

Extensible semitrailers. Suggested by A.D.Babich, P.B.Rubinov, D.V.Robinson. Rats.1 izobr.predl.v stroi. no.8:
134-138 '58. (MIRA 13:3)

1. Avtotransportnyy trest Glavleningradstroya.
(Truck trailers)

RUBINOV, P.B., insh.

Trailer for transporting cement. Biul. tekhn. inform. 4 no.3:28 Mr
'58. (MIRA 11:3)

(Cement—Transportation)

ROZANOV, I.B., kand. med. nauk; RUBINOV, R.S.

Some causes of unsatisfactory results of an appendectomy. Trudy TSIU
66:206-223 '64.

RUBINOV, R.S.

Case of a gastrointestinal reticulum cell sarcoma. Trudy TSIU
62:247-252 '63.

Difficulties of differential diagnosis of diseases in the area
of the cecum. Ibid.:259-267 (MIRA 18:3)

1. II kafedra rentgenologii (zav. prof. Yu.N.Sokolov) TSentral'-
nogo instituta usovershenstvovaniya vrachey.

L 10702-55 SNC(j)/EWG(r)/SWT(1)/FS(v)-3/ENG(v)/ENG(a)/ENG(c) Pe-5/Pa-4/
Pb-4 SSD/AFWL/AMD DD
ACCESSION NR: AT4045953 S/3111/63/062/000/0137/0142

AUTHOR: Rubinov, R. S.

TITLE: Disturbances in the protein content of rabbit blood serum following acute radiation damage under alpine conditions

SOURCE: Dushanbe. Gosudarstvennyy meditsinskiy institut. Trudy*, v. 62, 1963. Voprosy* fiziologii i patologii vy*okogor'ya; trudy* nauchnoy konferentsii, 1962. (Problems of the physiology and pathology of Alpine regions; transactions of the 1962 scientific conference), 137-142

TOPIC TAGS: radiation sickness, hematopoiesis, serum protein, blood picture, acute radiation damage, albumin, globulin, hemoglobin, anemia, leukocytopenia, high altitude

ABSTRACT: Using rabbits which had lived in the Eastern Pamirs (3600 m above sea level) for about 2 months, the author followed the red and white blood count, hemoglobin, total protein and serum protein fractions for 12 days after the s.c. injection of Na₂HP₃2O₄ at a dose of 2.5 mC/g. All animals died in 7-14 days, showing weight loss on the first day, decreased mobility and appetite on the 3rd day, and a mucous secretion from the nose and intestines 3-4 days before death.

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L 10702-65

ACCESSION NR: AT4045953

The leukocyte count decreased sharply for the first 4 days, and again near death, while the red cell count decreased slightly on the 6th day. The hemoglobin decreased slightly near death, along with the hematocrit. The total protein began to decrease on the first day, with relative decreases in the albumin level (becoming especially low on the 11th day) and increases in α_2 - and β -globulin. The absolute albumin level also decreased from the 2nd day on, while the α_2 - and β -globulins increased from the 3rd day. There were no significant changes in the absolute or relative levels of α_1 - or γ -globulin. Orig. art. has: 3 tables.

ASSOCIATION: Tadzhikskiy meditsinskiy institut im. Abuali ibni Sino, Dushanbe
(Tadzhik Medical Institute)

SUBMITTED: 00

ENCL: 00

SUB-CODE: LS

NO REF SOV: 007

OTHER: 003

Card 2/2

RUBINOV, R.S.

Significance of the methodology of X-ray examination in the
diagnosis of cancer of the large intestine. Vest. rent. i rad.
40 no.4:42-47 Jl-Ag '65. (MIRA 18:9)

1. 2-ya kafedra rentgenologii i meditsinskoy radiologii (zav.-
prof. Yu.N. Sokolov) TSentral'nogo instituta usovershenstvovaniya
vrachey, Moskva.

RUBINOV, R.S.

Disorders in the protein composition of the blood serum in rabbits
in acute radiation injury in high-mountain areas. Trudy Tadzh. med.
inst. (2:137-142 '63. (MIRA 17:12)

1. Tadzhikskiy meditsinskiy institut im. Abuali ionni Sino, Dushanbe.

RUBINOV, R.S.

Method for the X-ray study of the large intestine. Trudy TSIU
2:323-334 '61. (MIRA 15:8)
(INTESTINES--RADIOGRAPHY)

ZAGNITKOVSKAYA, E.M.; ROZANOV, I.B., kand.med.nauk; RUBINOV, R.S.

Case of Crohn's disease. Vest. rent. i rad. 37 no.2:57-61 Mr-Ap '62.
(MIRA 15:4)

1. Iz 2-y kafedry rentgenologii i radiologii TSentral'nogo instituta
usovershenstvovaniya vrachey (zav. - prof. Yu.N.Sokolov), 2-y
kafedry khirurgii (zav. - prof. B.K.Osipov), bol'nitsy No.50
(glavnnyy vrach N.P.Brusova).

(REGIONAL ILEITIS)

RUBINOV, S.

Electric spark method of metalworking. No 9.

Tankist, No 12, 1948.

RUBINOV, S., inzhener.

Making the servicing of a M-20 automobile more convenient. Avt.transp.
32 no.4;34 Ap '54. (MLRA 7:6)
(Automobiles--Apparatus and supplies)

RUBINOV, V.I.

New governor for centrifugal fans. From.energ. 17 no.2:12-13 F
'62. (MIRA 15:3)
(Fans, Mechanical)

L 26667-65 EEC(b)-2/EWT(1)/EWT(m)/EWP(b)/T/EWP(t) IJP(c) RDW/GG/JD

ADMISSION NR AP5003312

S/0166/64/000/006/0063/0068

AUTHORS: Adinovitch, E. I.; Rubinov, V. M.; Yuabov, Yu. M.

TITLE: Cadmium telluride films with anomalously large photoemf

UDC NO.: 537.432.1'72.014.51:537.432.1'72.014.51
1980

TOPIC TAGS: Cadmium telluride, thin film, photoemf, film resistance

ABSTRACT: Results are reported of investigations made at the Physico-technical Institute of AN UzSSR on cadmium tellurite film re-

Card

1/3

L 26667-65
ACCESSION NR: AP5003312

7

metric EMU-3 amplifier with input resistance $\sim 10^{11}$ ohm, or with
electrostatic voltmeters (type S-95² and S-50²⁸ 30--100 V) and input
coupling to the analog output.

Card

2/3

L 2000-25

ACCESSION NR: AP5003312

the intrinsic-absorption band. Orig. art. has: 8 figures and 1 formula.

ASSOCIATION: Fiziko-tehnicheskiy institut AN UzSSR (Physicotechnical Institute AN UzSSR)

SUBMITTED: 08May64 ENCL: 00 SUB CODE: SS,OP

NR REI SOV: 008 OTHER: 008

ACC NR: AP6021603

SOURCE CODE: UR/0020/66/168/005/1037/1040

AUTHOR: Adirovich, E. I. (Academician AN UzSSR); Rubinov, V. M.; Yuabov, Yu. M.ORG: Physicotechnical Institute, Academy of Sciences UzSSR (Fiziko-tehnicheskiy institut Akademii nauk UzSSR)TITLE: The nature of the effect of anomalously large photovoltages in semiconductor films

SOURCE: AN SSSR. Doklady, v. 168, no. 5, 1966, 1037-1040

TOPIC TAGS: photovoltaic effect, pn junction, physical diffusion, angular dependence, photoconductivity

ABSTRACT: This is a continuation of earlier work by the authors (DAN, v. 164, 529, 1965) and deals with the consequences of two possible hypotheses explaining the nature of the anomalously large photovoltage (apv) effect - that it constitutes either a photovoltaic effect in microscopic p-n junctions, or a photodiffusion (Demirer) effect in microscopic regions of like conductivity. The theoretical expressions for the apv-voltage are written out for both cases and all the presently known experimental data are examined from the point of view of reconciliation with the two hypotheses, especially the dependence of the apv-voltage on the light intensity. It is shown that in the case of photovoltaic microelements the linearity of the lux-voltage characteristics should be violated sooner than in the case when the film consists of photodiffusion microelements. It is proposed that a decisive experiment for

UDC: 539.216.22: 621.315.592: 535.215

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ACC NR: AP6021603

the resolution of the question would be to study the dependence of the magnitude and sign of the apv-voltage on the angle of the incident light. Comparison with actual test results leads to the conclusion that the apv-effect is due to the photodiffusion mechanism in Ge, Si, and GaAs films and to microscopic p-n junctions in CdTe films.
Orig. art. has: 4 figures and 5 formulas.

SUB CODE: 20/ SUBM DATE: 10Mar66/ ORIG REF: 017/ OTH REF: 005

Cord 2/2

L-2995-66

ACC NR: AP5024207

SOURCE CODE: UR/0020/65/164/003/0529/0532

AUTHOR: Adirovich, E. I. (Academician AN UzSSR); Rubinov, V. M.; Yuabov, Yu. M.

ORG: Physicotechnical Institute, Academy of Sciences, UzSSR (Fiziko-tehnicheskiy
institut Akademii nauk UzSSR)

TITLE: Microbattery or photoelement?

SOURCE: AN SSSR. Doklady, v. 164, no. 3, 1965, 529-532

TOPIC TAGS: photovoltage, larger than gap photovoltage, energy gap, space charge,
pn junction, thin film

ABSTRACT: It is demonstrated that the larger-than-gap voltages observed in various semiconductors cannot be explained by the presence of a space-charge produced by a nonuniform distribution of trapped minority carriers, as was proposed by Brandhorst and Potter (J. Appl. Phys., 35, 7, 1997, 1964). According to the authors, Brandhorst's and Potter's error consisted in incorrectly applying a formula they had derived to show that the voltage between two points on the semiconductor is directly proportional to the difference in trapped carrier concentration along this line; in fact, what follows from this formula is that the voltage can never be larger than the width of the energy gap and, further, that it is limited by the inequality $V \ll kT/q$. After demonstrating that the larger-than-gap voltages can be explained only by postulating junctions connected like batteries in series, the authors nar-

Card 1/2

L 2995-66

ACC NR: AP5024207

rowed the field of further research by obtaining the following data: 1) larger-than-gap voltages cannot result from a surface photoelectric effect, but must be connected with charge distribution inside the film; 2) high voltages arise only if the material is anisotropically deposited, and are not dependent on a film thickness gradient. A more complete theoretical explanation of the phenomenon is being prepared. Orig. art. has: 12 formulas.

O

[ZL]

SUB CODE: SS/ SUBM DATE: 03Apr65/ ORIG REF!: 017/ OTH REF!: 008/ ATD PRESS: 4124

Card 2/2 *hl*

L 10897-66 EWT(1) IJP(c) AT SOURCE CODE: UR/0181/65/007/012/3652/3654
ACC NR: AP6000874 AUTHOR: Adirovich, E. I.; Mirzamakhmudov, T.; Rubinov, V. M.; Yuabov, Yu. M. 44, 55 44, 55 44, 55 54B
ORG: Physicotechnical Institute, AN UzSSR, Tashkent (Fiziko-tehnicheskiy institut
AN UzSSR)
TITLE: Semiconductor films with a narrow energy gap, which generate photovoltages
of 5000 v
SOURCE: Fizika tverdogo tela, v. 7, no. 12, 1965, 3652-3654
TOPIC TAGS: photo emf, photoelectric cell, photoelectric effect

ABSTRACT: Anomalous photovoltages reaching nearly 6000 volts at liquid nitrogen temperatures were measured on films made of unidentified semiconductors with a narrow energy gap (≤ 0.5 eV) and with the absorption edge in the infrared range. The experiments showed that in order to increase the useful output of the anomalous photovoltaic effect the films should have low resistivities, particularly at low temperatures, when the highest photovoltages are generated. The volt-ampere characteristics of the investigated materials also showed that at low illumination the anomalous photovoltages increase rapidly with increasing currents. Even at $I = 10^{-6}$ wcm^{-2} photovoltages of the order of 1 volt were measured. It follows from the authors' figures that 1) the described films yield higher photovoltages than any others previously investigated;

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L 10897-66

ACC NR: AP6000874

and 2) that they have a very high negative temperature coefficient and a very low
temperature coefficient of the short-circuit current. Orig. art. has: 2 figures
and 1 table. [ZL]

SUB CODE: 10/ SUBM DATE: 24Jun65/ ORIG REF: 010/ OTH REF: 002/ ATD PRESS:

4172

HW
Card 2/2

ADIROVICH, E.I.; RUBINOV, V.M.; YUABOV, Yu.M.

Cadmium telluride with anomalously high photovoltage. Izv. AN
Uz. SSR. Ser. fiz.-mat. nauk 8 no.6:63-68 '64. (MIR 18)

1. Fiziko-tehnicheskiy institut AN UzSSR.

ADIROVICH, E.I.; RUBINOV, V.M.; YUABOV, Yu.M.

Effect of anomalously high photovoltages in GaAs films.
Fiz. tver. tela 6 no.10:3180-3181 0 '64. (MIRA 17:12)

1. Fiziko-tehnicheskiy institut Uzbekskoy SSR, Tashkent.

ACCESSION NR: AP4042017

S/0020/64/157/001/0076/0078

AUTHOR: Adirovich, E. I. (Academician AN UzSSR); Rubinov, V. M.; Yuabov, Yu. M.

TITLE: Investigation of anomalously large photopotentials in thin silicon films

SOURCE: AN SSSR. Doklady*, v. 157, no. 1, 1964, 76-78

TOPIC TAGS: silicon film, silicon film potential, silicon film characteristic

ABSTRACT: Results are given of an investigation of thin silicon films having anomalously large photopotentials (a.p.p.). The dependence of V_{app} on light intensity I , wavelength λ , and temperature T , as well as the effect of a.p.p. in polarized light, were investigated, and the dependence of V_{app} on the orientation of the polarization plane was determined. The electret effect in a.p.p. silicon films was detected at room temperature. All films were prepared by methods described previously (E. I. Adirovich, Yu. M. Yuabov, DAN, 155, no. 6 (1964)). In addition to sufficiently pure ($\rho \sim 1500 \text{ ohm} \cdot \text{cm}$) silicon, a low-

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ACCESSION NR: AP4042017

resistance ($\rho \sim 0.1$ ohm.cm) silicon was taken as the initial material. It was found that dark film resistance (R) is rather high, independently of the initial material's specific resistance. Apparently the main contribution for R is provided by intercrystalline regions. The dependence of photopotential on light intensity is linear. For high-resistance films, V_{app} is higher. The film resistance rises considerably (by 1 to 2 orders) when temperature drops from room temperature to -60°C. The spectral sensitivity of the a.p.p. effect of Si films was determined by direct measurement of V_{app} by the compensation method. The spectra of the a.p.p. effect are different for different films. The experiments with polarized light showed that in all the films investigated, V_{app} depends on the orientation of the plane of light polarization with regard to the straight line connecting the electrodes of the film.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk UzSSR
(Physicotechnical Institute, Academy of Sciences UzSSR)

SUBMITTED: 27Feb64

ATD PRESS: 3065

ENCL: 00

SUB CODE: SS, OP
Card 2/2

NO REF SOV: 001

OTHER: 001

ROGOVICH, E. I.; MIRZAMANOV, T.; RUBINOV, V. M.; DUDEN', YU. V.

Semiconductor films with a narrow forbidden band developing a
photovoltage of 5000 v. Fiz. tver. tel. 7 no. 1282650-365A
(MIFI, 1981)
p. 165

T. Fiziko-tehnicheskiy Institut AN UzSSR, Tashkent.

24(4), 24(7)

SOV/51-7-1-9/27

AUTHORS: Kizel', V.A. and Rubinov, V.M.

TITLE: Optical Properties of Concentrated Solutions and Melts. I.
(Opticheskiye svoystva kontsentrirovannykh rastvorov i rasplavov. I.)

PERIODICAL: Optika i spektroskopiya, 1959, Vol 7, Nr 1, pp 62-70 (USSR)

ABSTRACT: The refractive index n and the absorption coefficient χ of concentrated solutions of nitrosodimethylaniline, fuchsin, crystal violet, rhodamine 6Zh, methylene blue and of bromine were found by the selective reflection method. The solvent used was aniline and measurements were made on solutions with a wide range of concentrations. A monochromator ZMR-2 with automatic recording was employed. An incandescent lamp was used as the light source and photo-elements TsV and STsV were used as the receivers. A special cell was constructed for these experiments. It is shown in Fig 1, where A is the incident beam, B is the light reflected from the front surface of a wedge-shaped glass wall 1, C is the light reflected from a solution and recorded by a monochromator 3, D is the light transmitted by the solution and 2 is a mirror. The results of measurements are shown in Figs 2-7 in the form of plots of the reflection coefficient R against frequency. Figs 10 and 11 show absorption by aqueous solutions of rhodamine 6Zh, while

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SOV/51-7-1-9/27

Optical Properties of Concentrated Solutions and Melts. I.

Fig 12 shows absorption by aniline solutions of the same dye. Comparison of the experimental curves with those calculated using the classical theory of dispersion and Davydov's quantum theory (Ref 1) showed clearly the superiority of the Davydov theory. It was found also that the oscillator strengths of dye solutions decrease with concentration when intermolecular distances are of the order of 10-50 Å; it is suggested that this is due to coupling between absorption oscillators. There are 12 figures, 2 tables and 15 references, 11 of which are Soviet, 3 English and 1 German.

SUBMITTED: July 14, 1958

Card 2/2

RUBINCV, V.Yu., inzh.

New regulator system for centrifugal exhaust fans. Elek.sta.
32 nc.9:36-40 S '61. (MIRA 14:10)
(Fans, Electric)

REF ID: A11422 122 122 (FWD/h) TIP(-)/FSD(is)/ACD(1)-S/AFM/ESD(cs)/ESD(l)/RAEM(t)

AUTHORS: Al'trovich, E. I.; Rubinov, V. M.; Yuabov, Yu. M.

TITLE: The effect of anomalously large photovoltages in GaAs films 27 27 14

SOURCE: Fizika tverdogo tela, v. 6, no. 10, 1964, 3180-3181

TOPIC TAGS: germanium alloy, thin film, photo emf, single crystal, spectral sensitivity

ABSTRACT: The films were prepared by evaporation in vacuum onto a glass substrate from a crucible coated with beryllium oxide. Single-crystal n-type GaAs films were obtained by sublimation at $\approx 800^{\circ}\text{C}$. In darkness, the resistance of the films was $R_0 = 10^{11} - 10^{13}$ ohm for a thickness $d \approx 0.2 \mu$. At $I = 50,000$ lux and $T = 20^{\circ}\text{C}$, the films generated anomalous photovoltages V_{apv} up to 400 V, and at $T = -196^{\circ}\text{C}$, up to 700 V. All GaAs films had a thickness gradient, and at the thicker end, i.e., at the electrode which was closest to the evap-

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L 10363-65

ACCESSION NR: AP4046649

operator, the sign of V_{apv} was always negative. Electret effects were not observed in GaAs. The current-voltage characteristics of GaAs films were linear. The lux-voltage characteristics of GaAs were linear up to $\approx 30,000$ lux with a change of slope at $\approx 100,000$ lux. The resistance of GaAs films decreased slightly with increase in the illumination (approximately by a factor of 2 between $I = 0$ and $I = 300,000$ lux). The spectral sensitivity curve $V_{apv}(\lambda)$ of GaAs films had a long-wavelength "tail" due to the departure from stoichiometry during film deposition. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Fiziko-tehnicheskiy institut Uzbek. SSR, Tashkent
(Physical Technical Institute, Uzbek SSR).

Card 2/2

ADIROVICH, E.I., akademik; RUBINOV, V.M.; YUABOV, Yu.M.

Anomalously large photovoltages in thin silicon films. Dokl.
AN SSSR 157 no.1:76-78 Jl '64 (MIRA 17:8)

1. Fiziko-tekhнический institut AN UzSSR (for Adirovich).

RUBINOV, V.Yu., inzh.

Choice of alternatives in redesigning draft and blast machines.
(MIRA 18:10)
Elek. sta. 36 no.11:28-30 N '65.

RUBINOV, YE. B.

Silk

Raise the quality of raw silk. Tekst. prom. 12 no. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, November, 1952, Unclassified.

RUBINOV, E.B.

25672

Normy Vyhoda Sukhikh Kokonov. Tekstil. Prom - st', 1948, No.6, s. 12-14

SO: LETOPIS NO. 30, 1948

RUBENOV, E. B.

25672 RUBENOV, E. B. i SERGEEVA, N. N.

Normy vkhoda sukhikh kokonov.

Tekstil. Prom-st', 1948, No. 6, s. 12-14.

SO: Letopis' Zhurnal'nykh Statey, No. 30, Moskva, 1948

RUBINOV, E.B., kandidat tekhnicheskikh nauk; OSIPOVA, L.Kh., kandidat
tekhnicheskikh nauk.

Quality control of raw silk by bale and crew. Tekst.prom. 14 no.8:
4-7 Ag '54. (MLRA 7:10)
(Silk manufacture)

RUBINOV, V.

The standard of services for the population is being raised.
Zhil.-kom. khoz. 5 no.8:15 '55. (MIRA 8:6)
(Moscow--Municipal services)

RUBINOV, V.M.; KIZEL', V.A.

Note on the correlation of processes of the inductive interaction
of excited and nonexcited molecules. Izv. AN Uz. SSR. Ser. fiz.-mat.
nauk no.4:63-66 '61. (MIRA 14:9)

1. Nauchno-issledovatelskiy institut sudebnoy ekspertizy
Yuridicheskogo komiteta Soveta Ministrov Uzbekskoy SSR.
(Molecular dynamics)

RUBINOV, V.M.; KIZEL', V.A.

Absorption spectra of solid films of dyes. Izv. AN Uz. SSR. Ser.
fiz.-mat. nauk no.4:96-98 '61. (MIRA 14:9)

1. Nauchno-issledovatel'skiy institut sudebnoy ekspertizy
Yuridicheskogo komiteta Soveta Ministrov Uzbekskoy SSR.
(Dyes and dyeing) (Absorption spectra)

RUBINOV, Emmanuil Babudzhanovich; USENKO, V.A., doktor tekhn. nauk,
ctv. red.; BAKITSKAYA, A.V., red.; GOR'KOVAYA, Z.P., tekhn.
red.

[Automatic silk-reeling machine of the type developed by
the Uzbekistan Scientific Research Institute of the Silk
Industry, operated according to the principle of thread
tension] Kokonomoial'nyi avtomat tipa UzNIIShP, deistvuiu-
shchii po printsipu rastiazheniya niti. Tashkent, Izd-
AN UzSSR, 1962. 298 p. (MIRA 16:2)
(Reels (Textile machinery)) (Silk)

RUBINOV, V.M.; KIZEL', V.A.

Optical properties of concentrated solutions, melts, and films
of dyes. Part 2. Opt. i spektr. 15 no.4:512-521 O '63.
(MIRA 16:11)

RUBINOV, Yu.S.

Disturbances and their elimination in the operation of feed
installations of Heat and Electric Power Plants. Sakh.prom.
34 no.1:33-35 Ja '60. (MIRA 13:5)

1. Giprosakhar.
(Sugar industry--Equipment and supplies)
(Boilers) (Pumping machinery)